

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20221
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/830,361	04/25/2001	Yasushi Inagaki	P279059	4952	
909	7590 09/24/2002				
PILLSBURY WINTHROP, LLP			EXAMINER		
P.O. BOX 10: MCLEAN, V.			DINH, TUAN T		
			ART UNIT	PAPER NUMBER	
			2827		
		DATE MAIL ED: 09/24/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

4					gin		
		Applicat	ion No.	Applicant(s)			
Office Action Summary		09/830,3	361	INAGAKI ET AL.			
		Examine	er	Art Unit			
		Tuan T E		2827			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠ F	Responsive to communication(s) t	filed on <u>25 A<i>pril 2001</i></u>					
2a) <u> </u>	This action is FINAL .	2b) ☐ This action i	s non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ C	laim(s) <u>1-78</u> is/are pending in the	application.					
4a) Of the above claim(s) is/	are withdrawn from o	onsideration.				
5)□ C	laim(s) is/are allowed.						
6)□ C	laim(s) is/are rejected.						
7) 🗌 C	laim(s) is/are objected to.						
	laim(s) <u>1-78</u> are subject to restric	tion and/or election re	equirement.				
Application Papers							
9) The specification is objected to by the Examiner.							
·	e drawing(s) filed on is/are						
	Applicant may not request that any o						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☑ All b) ☐ Some * c) ☐ None of:							
,	. Certified copies of the priorit		een received.				
_		-		Application No			
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s			🗖				
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review Ition Disclosure Statement(s) (PTO-1449)			ew Summary (PTO-413) Paper N of Informal Patent Application (P			

Art Unit: 2827

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-9, 16-28, 32-45, 50-63, and 67-78, drawn to a printed circuit board, class 361, subclass 763.

Group II, claim(s) 10-15, 29-31, 46-49, 64-66, drawn to a method for manufacturing a printed circuit board, class 29, subclass 832.

- 2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:
- 3. Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the method for manufacturing of a printed circuit board can be used in vary of different processes, for example, the method for manufacturing the printed circuit board can be applied a pressure to an upper surfaces of a plurality of capacitors in a cavity to align the upper surfaces of the capacitors to the same heights with each other <u>before</u> mounting the capacitors in the cavity of a core

Art Unit: 2827

substrate, and also, the method steps can be used such as injection molding or adhesive instead of charging resin between the capacitors.

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Specie I Figures 9-15, first modification of a first embodiment.

Specie II Figure 16, second modification of a first embodiment.

Specie III Figures 18-20, third modification of a first embodiment.

Specie IV Figure 21, fourth modification of a first embodiment.

Specie V Figure 31, first modification of a second embodiment.

Specie VI Figure 32, second modification of a second embodiment.

Specie VII Figure 33, third modification of a second embodiment.

Specie VIII Figure 39, first modification of a third embodiment.

Specie XI Figures 40-42, second modification of a third embodiment.

Specie X Figures 43-44, third modification of a third embodiment.

Specie XII Figures 46-47, fourth modification of a third embodiment.

Art Unit: 2827

Specie XIII Figure 53, first modification of a fourth embodiment.

Specie XIV Figure 54, second modification of a fourth embodiment.

Specie XV Figure 55, third modification of a fourth embodiment.

Specie XVI Figure 56, fourth modification of a fourth embodiment.

Specie XVII Figures 58-59, fifth modification of a fourth embodiment.

Specie I Figures 65-66, first modification of a fifth embodiment.

Specie I Figures 67-68, second modification of a fifth embodiment.

Specie I Figure 69, third modification of a fifth embodiment.

Specie I Figure 70, fourth modification of a fifth embodiment.

Specie I Figure 71, fifth modification of a fifth embodiment.

Specie I Figure 72, sixth modification of a first embodiment.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

Art Unit: 2827

are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are not generic.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 703-306-5856. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-1341 for regular communications and 703-305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Art Unit: 2827

Page 6

TD September 20, 2002

ALBERT W. PALADINI PRIMARY EXAMINER